

5       PROCESS FOR THE PREPARATION OF A MOLECULAR SIEVE ADSORBENT  
          FOR THE ADSORPTIVE DEHYDRATION OF ALCOHOLS

          ABSTRACT OF THE DISCLOSURE

          This invention relates to the use of pore mouth control of microporous solids for  
10   developing novel molecular sieve adsorbents and their potential in the drying of  
      alcohols. More specifically, the invention relates to the manufacture and use of a  
      molecular sieve adsorbent, which selectively adsorbs water from azeotropic alcohol -  
      water mixtures by pore mouth control of microporous solids with liquid phase metal  
      alkoxide deposition on the external surface at ambient conditions of temperature and  
15   pressure. The prepared adsorbent is therefore useful for the commercial drying of  
      alcohols.